

# DNASCRIP™

## SYNTAX 96 STANDARD KITS

FOR USE WITH THE SYNTAX®  
SYSTEM, MODEL STX-200

Cat. No. 102294

SYNTAX DNA Synthesis Kit

Cat. No. 101869

SYNTAX 96 Standard Run Kit

The SYNTAX 96 Standard Run Kit includes the reagents and consumables required for the parallel enzymatic synthesis of 96 ready-to-use DNA oligos of up to 80nt in length and are intended for use in applications such as PCR, qPCR, Sanger sequencing, protein engineering, or target enrichment. Rapid setup and printing of oligos enable same or next-day use in downstream workflows. The synthesis and run kits are both required for oligo synthesis using the SYNTAX System.

### HIGHLIGHTS

- Flexible runs: Synthesize up to 96 unlabeled or labeled DNA oligos up to 80 nt in one run
- Label options: Choose from 5 fluorophores, 3 quenchers, and biotin
- Degenerate bases: Ability to include degenerate bases in the sequence to synthesize degenerate oligos
- Fast setup and synthesis: Set up a run in approximately 15-30 minutes and oligos are ready in 6-17 hours depending on length
- Application-ready output: Oligos are desalted and normalized in molecular biology-grade water and ready for immediate use in downstream applications



### SYNTAX 96 STANDARD KIT SPECIFICATIONS

Turnaround time	<ul style="list-style-type: none"><li>• Approximately 6 hours for 96 x 20mer oligos</li><li>• Approximately 17 hours for 96 x 80mer oligos</li></ul>
Oligo length	<ul style="list-style-type: none"><li>• 15-80 nt</li></ul>
Bases Labels	<ul style="list-style-type: none"><li>• Unmodified A, T, G, and C</li><li>• Fluorophores – Green, Yellow, Orange, Red, Deep Red</li><li>• Quenchers – Quencher 1, Quencher 2, Quencher 3</li><li>• Biotin</li></ul>
Degenerate bases	<ul style="list-style-type: none"><li>• Yes, all IUPAC codes (R, Y, M, K, S, W, H, B, V, D, N)</li></ul>
Yield and concentration (unlabeled oligos)	<ul style="list-style-type: none"><li>• <math>\geq 500</math> pmol and <math>\geq 7</math> <math>\mu\text{M}</math> (&gt;95% of wells)**</li></ul>
Yield and concentration (labeled oligos)	<ul style="list-style-type: none"><li>• <math>\geq 280</math> pmol and <math>\geq 4</math> <math>\mu\text{M}</math> (&gt;95% of wells)**</li></ul>
Error rate (per base)	<ul style="list-style-type: none"><li>• Approximately 0.6%</li></ul>

\*\* For oligos determined to be of standard synthesis difficulty by the Console Software.

### SYNTAX LABEL SPECIFICATIONS\*\*\*

Fluorophore	Peak Excitation	Peak Emission	Quencher	Channel
Green (488)	495 nm	519 nm	Quencher 1	Use with FAM channel
Yellow (532)	532 nm	552 nm	Quencher 1	Use with HEX channel
Orange (550)	554 nm	576 nm	Quencher 2	Use with TAMRA channel
Red (565)	564 nm	590 nm	Quencher 2	Use with ROX channel
Deep Red (647)	646 nm	664 nm	Quencher 3	Use with CY5 channel

\*\*\* The SYNTAX Labels contain fluorophores from ATTO-TEC GmbH: Yellow (532) contains ATTO 532, Orange (550) contains ATTO 550, Red (565) contains ATTO 565, Deep Red (647) contains ATTO 647N.

## KIT COMPONENTS

SYNTAX DNA Synthesis Kit - Cat. No. 102294	
Synthesis Reagents Box 1 of 3	<ul style="list-style-type: none"> <li>Includes synthesis reagents (S1, S2)</li> <li>Quantity: 1</li> <li>Store at 4 °C (shipped at room temperature)</li> </ul>
Synthesis Reagents Box 2 of 3	<ul style="list-style-type: none"> <li>Includes synthesis reagents (S3, S4)</li> <li>Quantity: 1</li> <li>Store at room temperature (shipped at room temperature)</li> </ul>
Synthesis Nucleotides & Enzyme Box 3 of 3	<ul style="list-style-type: none"> <li>Includes synthesis nucleotides (dA, dT, dC, dG) and synthesis enzymes (S1E, S4E)</li> <li>Quantity: 1</li> <li>Store at -20 °C (shipped on dry ice)</li> </ul>

SYNTAX 96 Standard Run Kit - Cat. No. 101869	
Post-Processing Reagents Box 1 of 3	<ul style="list-style-type: none"> <li>Includes the post-processing reagents (P1, P2, P4, P5)</li> <li>Quantity: 1</li> <li>Store at room temperature (shipped at room temperature)</li> </ul>
Post-Processing Enzymes Box 2 of 3	<ul style="list-style-type: none"> <li>Includes the post-processing reagents (P1, P2, P4, P5)</li> <li>Quantity: 1</li> <li>Store at -20°C (shipped on dry ice)</li> </ul>
Consumables Box 3 of 3	<ul style="list-style-type: none"> <li>Includes one Plate Set (Synthesis plate, Desalting plate, Oligo plate) and two adhesive plate sealing films</li> <li>Quantity: 1</li> <li>Store at 4 °C (shipped at room temperature)</li> </ul>

## RELATED ITEMS

Item	Catalog Number
SYNTAX System, Model STX-200	101773
SYNTAX 192 Label Kit	101991
SYNTAX 96 Label, Biotin	100785
SYNTAX 16/48/96 Label, Green	100782/100779/100969
SYNTAX 16/48/96 Label, Yellow	100935/100934/100970
SYNTAX 16/48/96 Label, Orange	100933/100932/100971
SYNTAX 16/48/96 Label, Red	100783/100780/100972
SYNTAX 16/48/96 Label, Deep Red	100784/100781/100973
SYNTAX 16/48/96 Label, Quencher 1	100776/100773/100966
SYNTAX 16/48/96 Label, Quencher 2	100777/100774/100967
SYNTAX 16/48/96 Label, Quencher 3	100778/100775/100968

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CUS-27 PIS\_SYNTAX 96 Standard Kits F082023-RM-ASP  
November 2024